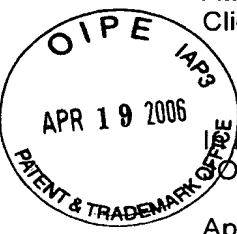


Attorney's Docket 060258-0284172  
Client Reference: 2990267US/A/KOP

IF 2663



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re PATENT APPLICATION of:  
JONNE SOININEN ET AL.

Confirmation Number: 2183

Application No.: 10/030,538

Group Art Unit: 2663

Filed: January 11, 2002

Examiner: Duong, Duc T.

For: ACCESS CONTEXT MANAGEMENT FOR MACRO-LEVEL MOBILITY MANAGEMENT  
REGISTRATION IN AN ACCESS NETWORK

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT/RESPONSE TRANSMITTAL

Transmitted herewith is an amendment/response for this application.

EXTENSION OF TIME

The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply. Applicant petitions for a 1 month extension of time under 37 C.F.R. 1.136.

FEES

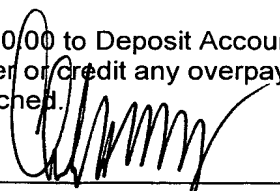
The fee for claims and extension of time (37 C.F.R. 1.16 and 1.17) has been calculated as shown below:

CLAIMS		HIGHEST NO.		PRESENT		RATE	ADDIT.
REMAINING	AFTER	PREVIOUSLY	PAID FOR	EXTRA			
AMENDMENT							FEE
TOTAL	21	-	21	=	0	x \$ 50.00	= \$ 0.00
INDEP.	3	-	3	=	0	x \$ 200.00	= \$ 0.00
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM					+	\$ 360.00	= \$ 0.00
TOTAL ADDITIONAL CLAIM FEE							\$ 0.00
EXTENSION OF TIME FEE							\$ 120.00
GRAND TOTAL							\$ 120.00

FEE PAYMENT

Authorization is hereby made to charge the amount of \$120.00 to Deposit Account No. 033975. Charge any additional fees required by this paper or credit any overpayment in the manner authorized above. A duplicate of this paper is attached.

Date: April 19, 2006  
PILLSBURY WINTHROP SHAW PITTMAN LLP  
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04/20/2006 SZEWDIE1 00000115 033975 10030538  
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Attorney Docket: 060258-0284172  
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Filed: January 11, 2002

Examiner: Duong, Duc T.

Title: ACCESS CONTEXT MANAGEMENT FOR MACRO-LEVEL MOBILITY  
MANAGEMENT REGISTRATION IN AN ACCESS NETWORK

REQUEST FOR RECONSIDERATION

Mail Stop Non-Fee Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated December 19, 2005, please reconsider the patentability of the claimed invention based on the following remarks. Claims 1-21 are pending.

Claims 2-3, 12-13 and 19-20 were rejected under 35 U.S.C. 112, second paragraph, as being allegedly indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Specifically, the Office Action took issue with the phrase "registration irrecoverably fails" as being unclear. Applicants traverse the rejection because that phrase would be readily understood by one of ordinary skill in the art, in particular based on a reading of Applicants' specification. In particular, Applicants point out on the record that the term "irrecoverably" is an adverb meaning that something has occurred in a manner that cannot be recovered or retrieved. Thus, in the context of the claims, the phrase "the registration irrecoverably fails" clearly means that the registration fails in a manner that the registration cannot be recovered on retrieved.

Therefore, Applicants submit that the phrase "the registration irrecoverably fails" is clear and unambiguous for one of ordinary skill in the art and no clarification is needed.

Although claims 2-7, 12-15 and 19-20 were deemed to include allowable subject matter, the Office Action rejected claims 1, 8-11, 16-18 and 21 under 35 U.S.C. 102(e) as being anticipated by Mustajärvi et. al. (U.S. 6,661,782; hereafter "Mustajärvi"). Applicants

traverse the rejection because Mustajärvi fails to disclose, teach or suggest all the features recited in the rejected claims. For example, Mustajärvi fails to disclose, teach or suggest the claimed method of managing access network protocol context in an access system (independent claim 1), the claimed access system (independent claim 11) or the claimed gateway node (independent claim 18) wherein at least one access network protocol context is opened at a first access node and the first gateway node in order to establish a connection between one of said plurality of mobile nodes and said first gateway node, a macro mobility registration is initiated over the access network connection between the mobile node and the first mobility entity, and monitoring is performed at the first gateway node the macro mobility registration, as recited in the rejected claims.

Mustajärvi merely discloses a routing area updating method for a packet radio network, such as GPRS, for use when a mobile station moves from a first serving packet radio support node to another. In such situations, a serving packet radio support node, which detects a routing area update by an unknown mobile station, transmits information on the change of serving packet radio support node to the mobile station. In response to that change of support node information received from the packet radio support node, the mobile station initiates a local procedure in the mobile station, or a network-level procedure with the new support node, to update the logical link between them for data transmission. Thus, Mustajärvi merely teaches a mobility management on the access network level, e.g., on the GPRS level.

However, Mustajärvi fails to teach any macro mobility management service or macro mobility registration. As explained in Applicants' specification, macro mobility management relates to a mobility management on a system level overlaying the mobility management of an access network (see page 5, paragraph 16, page 6, paragraph 26, lines 1-3). A mobility entity is an entity which provides a point of attachment on the macro mobility level, i.e., on the level overlaying the mobility management of an access network. An example of macro mobility management is mobile IP mobility management. Likewise, an example of a mobility entity is a foreign agent in the mobile IP mobility management.

To the contrary, Mustajärvi teaches only procedures on the GPRS level, i.e., the mobility management of an access network. Thus, Mustajärvi fails to disclose, teach or suggest macro mobility management on a system level overlaying the mobility management of a GPRS network.

Although the Office Action asserted that a Visitor Location Register (VLR) establishes a first mobility entity which provides macro mobility management services (i.e. location update or

paging requests) to the mobile nodes MS, the VLR is actually involved with the mobility management of the GSM network so that mobile stations attached with the GPRS network can be paged for terminating calls received to the GSM network. VLR has no relation to any overlaying macro mobility management.

Further, contrary to the assertions of the Office Action, no dedicated access network connection established by opening access network protocol contexts at a first access node and a first gateway node is used to carry any signalling to the VLR. Rather, there is only a signalling interface Gs between the SGSN and the VLR of the mobile communication network.

Still further, contrary to the assertions of the Office Action, the VLR does not participate in the deletion or creation of access network protocol contexts in the GPRS network.

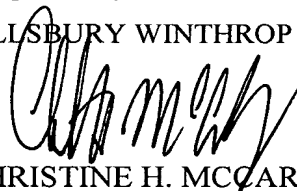
Moreover, Mustajärvi merely mentions that an IP network may be one example of an external data network; however, Mustajärvi fails to teach or suggest that mobile IP or any kind of macro mobility management may be employed on the IP level.

All points of potential rejection and objection having been addressed, Applicants submit that the application is in condition for immediate allowance and request a notice to that effect. However, if anything further is necessary to place the application in condition for allowance, Applicant requests that the Examiner telephone the Applicants' representative at the number listed below.

Please charge any fees associated with the submission of this paper to Deposit Account Number 033975. The Commissioner for Patents is also authorized to credit any over payments to the above-referenced Deposit Account.

Respectfully submitted,

PILLSBURY WINTHROP SHAW PITTMAN LLP



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